

$^{27}\text{Al}(e,e')$ 1980Hi03,1983Ry03

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 112, 1875 (2011)	30-Nov-2010

Others: 1987Ra26, 1983Do01.

1980Hi03,1983Ry03: $^{27}\text{Al}(e,e')$, $E=70\text{-}340$ MeV; measured $\sigma(E,\theta)$ at 90° , 160° and 180° . ^{27}Al levels deduced $B(\lambda)$, δ . Strong coupling, weak-coupling models, DWBA analysis.

 ^{27}Al Levels

E(level) [†]	J ^π @	E(level) [†]	J ^π @	T _{1/2} &	(2J+1)Γ _γ ^a
0	5/2 ⁺	5500	11/2 ⁺		
844	1/2 ⁺	5551	5/2		
1014	3/2 ⁺	5668	9/2 ⁺		
2211	(7/2 ⁺)	5827.0 [‡] 8	3/2 ⁻		
2735	5/2 ⁺	5960	(7/2)		
2981	3/2 ⁺	6158.4 [‡] 7	3/2 ⁻		
3004	(9/2 ⁺)	6477.3 [‡] 9	(7/2) ⁻		
3680	1/2 ⁺	6512	9/2		
3957	3/2 ⁺	6533	7/2 ⁺		
4055 [‡]	1/2 ⁻	6605	3/2 ⁻		
4410	5/2 ⁺	6651.3 [‡] 7	5/2 ⁻		
4510	(11/2 ⁺)	6713	9/2 ⁺		
4580	(7/2 ⁺)	6948	11/2 ⁺		
4812	5/2 ⁺	6993 [‡]	5/2 to 9/2		
5155.6 [‡] 8	3/2 ⁻	7227.2 [‡] 8	9/2 ⁻		
5248	5/2 ⁺	7413 [#] 1	7/2 ⁺	0.52 fs 6	5.8 6
5420	(9/2 ⁺)	7477.1 [‡] 9	7/2 ⁻		
5433	7/2	7578 [#] 2	5/2 ⁺	0.29 fs 4	4.4 6
5438	5/2 ⁻				

[†] Reported in 1983Ry03, except otherwise noted. Level energies from Adopted Levels.

[‡] Reported in 1980Hi03.

[#] From 1987Ra26.

[@] From Adopted Levels.

[&] Deduced by the evaluator using reported (2J+1)Γ_γ (1987Ra26).

^a In units of eV (1987Ra26).